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### 1 [Flow and stretch metrics for scheduling continuous job streams](#)

Michael A. Bender, Soumen Chakrabarti, S. Muthukrishnan

January 1998 SODA '98: Proceedings of the ninth annual ACM-SIAM  
symposium on Discrete algorithms

Publisher: Society for Industrial and Applied Mathematics

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### 2 [Evaluating design alternatives for reliable communication on high-speed networks](#)

Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Rutger F. H. Hofman

December 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 5

Publisher: ACM

Full text available: pdf(147.96 KB) Additional Information: [full citation](#), [abstract](#),  
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We systematically evaluate the performance of five implementations of a single, user-level communication interface. Each implementation makes different architectural assumptions about the reliability of the network hardware and the capabilities of the ...

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### 3 [Analysis of source policy and its effects on TCP in rate-controlled ATM networks](#)

Lampros Kalampoukas, Anujan Varma

October 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6  
Issue 5

Publisher: IEEE Press

Full text available: pdf(380.91 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)
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[www.SamsBiz.com](#)

Keywords: TCP over ATM, available bit rate (ABR) service, rate control

4 [Spread-spectrum CDMA packet radio MAC protocol using channel overload detection and blocking](#)

Garth Judge, Fambirai Takawira

December 2000 *Wireless Networks*, Volume 6 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(283.75 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [index terms](#)


An analytical and simulation performance evaluation is presented for a multi-access protocol for a data packet radio network with a limited user capacity. The network employs direct-sequence code division multiple access &par;DS-SS;CDMA&par; ...

5 [On-demand multicast routing protocol in multihop wireless mobile networks](#)

Sung Ju Lee, William Su, Mario Gerla

December 2002 *Mobile Networks and Applications*, Volume 7 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(248.93 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

An ad hoc network is a dynamically reconfigurable wireless network with no fixed infrastructure or central administration. Each host is mobile and must act as a router. Routing and multicasting protocols in ad hoc networks are faced with the challenge ...


Keywords: ad hoc networks, mobile computing, multicast, routing

6 [An efficient primary-segmented backup scheme for dependable real-time communication in multihop networks](#)

Krishna Phani Gummadi, Madhavarapu Jnana Pradeep, C. Siva Ram Murthy

February 2003 *IEEE/ ACM Transactions on Networking (TON)*, Volume 11 Issue 1


Publisher: IEEE Press


Full text available:  [pdf\(606.18 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

Several distributed real-time applications (e.g., medical imaging, air traffic control, and video conferencing) demand hard guarantees on the message delivery latency and the recovery delay from component failures. As these demands cannot be met in traditional ...

Keywords: backup channel, backup multiplexing, dependable connection, multihop network, primary channel, quality-of-service (QoS), real-time communication, resource reservation protocol (RSVP), segmented backup


7 [Network routing with path vector protocols: theory and applications](#)


-  João Luis Sobrinho  
 August 2003 SI GCOMM '03: Proceedings of the 2003 conference on  
 Applications, technologies, architectures, and protocols for  
 computer communications  
 Publisher: ACM

Full text available:  pdf(266.53 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

Path vector protocols are currently in the limelight, mainly because the inter-domain routing protocol of the Internet, BGP (Border Gateway Protocol), belongs to this class. In this paper, we cast the operation of path vector protocols into a broad algebraic ...


Keywords: BGP, algebra, border gateway protocol, path vector protocols

- 8 [MAC protocol and traffic scheduling for wireless ATM networks](#)  
 Nikos Passas, Lazaros Merakos, Dimitris Skyrianoglou, Frédéric Bauchot,  
 Gérard Marmigère, Stéphane Decrauzat  
 September 1998 Mobile Networks and Applications, Volume 3 Issue 3  
 Publisher: ACM


Full text available:  pdf(802.71 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#), [review](#)


The Medium Access Control (MAC) protocol defined in the Wireless ATM Network Demonstrator (WAND) system being developed within the project Magic WAND is presented. Magic WAND is investigating extensions of ATM technology to cover wireless customer premises ...

- 9 [The deflection self-routing Banyan network: a large-scale ATM switch using the fully adaptive self-routing and its performance analyses](#)  
 Jae-Hyun Park, Hyunsoo Yoon, Heung-Kyu Lee  
 August 1999 IEEE/ ACM Transactions on Networking (TON), Volume 7 Issue 4  
 Publisher: IEEE Press

Full text available:  pdf(418.66 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: ATM switch, algebraic formalism, deflection self-routing Banyan network, performance evaluation, topological properties, unbuffered Banyan network

- 10 [An integrated environment for testing mobile ad-hoc networks](#)  
 Yongguang Zhang, Wei Li  
 June 2002 MobiHoc '02: Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing  
 Publisher: ACM

Full text available:  pdf(315.26 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

Mobile Ad-Hoc Network (MANET) has become an increasingly active research area with a plethora of work in ad-hoc routing, media access, and protocols, etc. However, much of the effort so far has been in simulation with only a few systems that have ever ...

**Keywords:** MANET, emulation, mobile ad hoc networks, multi-hop routing, packet filter, testbed

# 11 The network is the database: data management for highly distributed systems



Julio C. Navas, Michael Wynblatt  
June 2001 ACM SIGMOD Record, Volume 30 Issue 2  
Publisher: ACM

Full text available: [pdf\(448.84 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

This paper describes the methodology and implementation of a data management system for highly distributed systems, which was built to solve the scalability and reliability problems faced in a wide area postal logistics application developed at Siemens. ...

**Keywords:** distributed data management, logistics, sensor networks, wide-area data management

# 12 Locality-preserving randomized oblivious routing on torus networks



Arjun Singh, William J. Dally, Brian Towles, Amit K. Gupta  
August 2002 SPAA '02: Proceedings of the fourteenth annual ACM  
symposium on Parallel algorithms and architectures  
Publisher: ACM

Full text available: [pdf\(277.17 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

We introduce *Randomized Local Balance* (RLB), a routing algorithm that strikes a balance between locality and load balance in torus networks, and analyze RLB's performance for benign and adversarial traffic permutations. Our results show that RLB ...

**Keywords:** interconnection networks, k-ary n cubes, locality-preserving, oblivious packet routing, randomized

# 13 Energy, congestion and dilation in radio networks



Friedhelm Meyer auf de Heide, Christian Schindelhauer, Klaus Volbert, Matthias Grünewald  
August 2002 SPAA '02: Proceedings of the fourteenth annual ACM  
symposium on Parallel algorithms and architectures  
Publisher: ACM

Full text available: [pdf\(260.44 KB\)](#) Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

We investigate the problem of path selection in radio networks for a given set of sites in two-dimensional space. For some given static point-

to-point communication demand we define measures for congestion, energy consumption and dilation that take interferences ...

Keywords: radio networks, routing, wireless communication

#### 14 [An introduction to active network node operating systems](#)



Parveen Patel

December 2002 *Crossroads*, Volume 9 Issue 2

Publisher: ACM

Full text available: [htm\(31.51 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

#### 15 [Prioritized resource allocation for stressed networks](#)

Cory C. Beard, Victor S. Frost

October 2001 *IEEE/ ACM Transactions on Networking (TON)*, Volume 9 Issue 5

Publisher: IEEE Press

Full text available: [pdf\(253.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Overloads that occur during times of network stress result in blocked access to all users, independent of importance. These overloads can occur because of degraded resource availability or abnormally high demand. Public broadband networks must dynamically ...

Keywords: Computer network performance, resource management

#### 16 [Evaluation of packet scheduling algorithms in mobile ad hoc networks](#)



Byung-Gon Chun, Mary Baker

June 2002 *ACM SIGMOBILE Mobile Computing and Communications Review*, Volume 6 Issue 3

Publisher: ACM

Full text available: [pdf\(398.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We examine the queuing dynamics at nodes in an ad hoc mobile network and evaluate network performance under different packet scheduling algorithms using Dynamic Source Routing (DSR) and Greedy Perimeter Stateless Routing (GPSR) as the underlying routing ...

#### 17 [End-to-end delay analysis of videoconferencing over packet-switched networks](#)


Mario Baldi, Yoram Ofek

August 2000 *IEEE/ ACM Transactions on Networking (TON)*, Volume 8 Issue 4


Publisher: IEEE Press


Full text available: [pdf\(266.78 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: MPEG, end-to-end delay, performance guarantees, quality of service, time-driven priority, videoconference

- 18 [Optimization flow control—I: basic algorithm and convergence](#)  
 Steven H. Low, David E. Lapsley  
 December 1999 IEEE/ ACM Transactions on Networking (TON), Volume 7  
 Issue 6  
 Publisher: IEEE Press  
 Full text available:  [pdf\(360.19 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: asynchronous algorithm, congestion pricing, convergence, gradient projection, optimization flow control

- 19 [Evaluation of pipelined dilated banyan switch architectures for ATM networks](#)  
 Mayez A. Al-Mouhamed, Mohammed Kaleemuddin, Habib Yousef  
 October 1999 IEEE/ ACM Transactions on Networking (TON), Volume 7  
 Issue 5  
 Publisher: IEEE Press  
 Full text available:  [pdf\(349.00 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

- 20 [Adaptive wavelength routing in all-optical networks](#)  
 Ahmed Mokhtar, Murat Azizoğlu  
 April 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 2  
 Publisher: IEEE Press  
 Full text available:  [pdf\(263.43 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: adaptive routing, all-optical networks, blocking performance, wavelength assignment, wavelength routing

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